

# SAFETY DATA SHEET

**Preparation Date:** No data available

**Revision Date:** 05/26/2015

**Revision Number:** G1

**Product identifier**

**Product code:** A2243  
**Product Name:** O-(2-AMINOPROPYL)-O-(2-METHOXYETHYL)PROPYLENE GLYCOL 500

**Other means of identification**

**Synonyms:** Propylene glycol 500 mono-2-aminoethyl mono-2-methoxyethyl ether  
**CAS #:** 77110-54-4  
**RTECS #** Not available  
**CI#:** Not available

**Recommended use of the chemical and restrictions on use**

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemicals and Laboratory Products, Inc.  
14422 South San Pedro St.  
Gardena, CA 90248  
(310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>

**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Martin LaBenz (West Coast)  
**Contact Person:** Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 2A

**Label elements**

## Warning

### Hazard statements

Harmful if swallowed  
Harmful in contact with skin  
Causes serious eye irritation



### Hazards not otherwise classified (HNOC)

Not Applicable

### Other hazards

Not available

### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear protective gloves/protective clothing/eye protection/face protection

### Precautionary Statements - Response

Specific measures (see .? on this label)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
IF ON SKIN: Wash with plenty of soap and water  
Call a POISON CENTER or doctor/physician if you feel unwell  
Wash contaminated clothing before reuse  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500 77110-54-4	77110-54-4	100	*

## 4. FIRST AID MEASURES

### First aid measures

#### General Advice:

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

#### Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

Product code: A2243

Product name: O-(2-AMINOPROPYL)-  
O-(2-METHOXYETHYL)PROPYLENE  
GLYCOL 500

2 / 12

**Eye Contact:** Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Causes serious eye irritation. Harmful if swallowed. Harmful in contact with skin.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon oxides, Nitrogen oxides

**Specific hazards:** May be combustible at high temperatures

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition. Do not get water inside containers.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up** Absorb spill with inert material (e.g. vermiculite, dry sand or earth). Use appropriate tools to put the spilled material in a suitable chemical waste disposal container.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice:**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

**Incompatible Materials:**

Acids. Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### National occupational exposure limits

#### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500 - 77110-54-4	None	None	None	None

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500 - 77110-54-4	None	None	None	None

## Australia and Mexico

Components	Australia	Mexico
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500 77110-54-4	None	None

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

- Eye protection:** Goggles. Safety glasses with side-shields.
- Skin and body protection:** Chemical resistant apron. Gloves. Long sleeved clothing.
- Respiratory protection:** Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
- Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b> Liquid	<b>Appearance:</b> Viscous.	<b>Color:</b> Colorless to pale yellow.
<b>Odor:</b> No information available	<b>Taste</b> No information available	<b>Molecular/Formula weight:</b> 600
<b>Formula:</b> CH <sub>3</sub> OCH <sub>2</sub> CH <sub>2</sub> O(C <sub>3</sub> H <sub>6</sub> O) <sub>n</sub> CH <sub>2</sub> CH(NH 2)	<b>Flash point (°C):</b> No data available	<b>Flashpoint (°C/°F):</b> 129°C/264.2°F
<b>Flash Point Tested according to:</b> Closed cup	<b>Lower Explosion Limit (%):</b> No information available	<b>Upper Explosion Limit (%):</b> No information available
<b>Autoignition Temperature (°C/°F):</b> No information available	<b>pH:</b> No information available	<b>Melting point/range(°C/°F):</b> No information available
<b>Boiling point/range(°C/°F):</b> No information available	<b>Decomposition temperature(°C/°F):</b> No information available	<b>Bulk density:</b> No information available
<b>Specific gravity:</b> 0.983	<b>Density (g/cm<sup>3</sup>):</b> No information available	<b>Vapor pressure @ 20°C (kPa):</b> No information available
<b>Evaporation rate:</b> No information available	<b>Vapor density:</b> No information available	<b>VOC content (g/L):</b> No information available
<b>Odor threshold (ppm):</b> No information available	<b>Partition coefficient (n-octanol/water):</b> No information available	<b>Viscosity:</b> No information available
<b>Miscibility:</b> No information available	<b>Solubility:</b> No information available	

## 10. STABILITY AND REACTIVITY

### Reactivity

Reactive with acids  
Reactive with oxidizing agents

### Chemical stability

**Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Incompatible materials.

**Incompatible Materials:** Acids. Oxidizing agents.

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (NO<sub>x</sub>).

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product code:** A2243

**Product name:** O-(2-AMINOPROPYL)-  
O-(2-METHOXYETHYL)PROPYLENE  
GLYCOL 500

6 / 12

**Principal Routes of Exposure:**

Eyes. Ingestion. Skin.

**Acute Toxicity**

**Component Information**

*O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500 - 77110-54-4*

- LD50/oral/rat** = No information available
- LD50/oral/mouse** = No information available
- LD50/dermal/rat** = No information available
- LD50/dermal/rabbit** = No information available
- LC50/inhalation/rat** = No information available
- LC50/inhalation/mouse** = No information available
- Other LD50 or LC50 information** = No information available

**Product Information**

**LD50/oral/rat =**  
**VALUE- Acute Tox Oral** = No information available

**LD50/oral/mouse =**  
**Value - Acute Tox Oral** = No information available

**LD50/dermal/rabbit**  
**VALUE-Acute Tox Dermal** = No information available

**LD50/dermal/rat**  
**VALUE -Acute Tox Dermal** = No information available

**LC50/inhalation/rat**  
**VALUE-Vapor** = No information available  
**VALUE-Gas** = No information available  
**VALUE-Dust/Mist** = No information available

**LC50/Inhalation/mouse**  
**VALUE-Vapor** = No information available  
**VALUE - Gas** = No information available  
**VALUE - Dust/Mist** = No information available

**Symptoms**

- Skin Contact:** Harmful in contact with skin.
- Eye Contact:** Causes serious eye irritation.
- Inhalation** May cause respiratory tract irritation.
- Ingestion** Harmful if swallowed.
- Aspiration hazard** No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available

**Sensitization:** No information available

**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available  
**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available  
**STOT - repeated exposure** No information available  
**Target Organs:** No information available

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.  
**Persistence and degradability:** No information available  
**Bioaccumulative potential:** No information available  
**Mobility:** No information available

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**  
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**  
Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	None	None	None	None

**Product code:** A2243

**Product name:** O-(2-AMINOPROPYL)-  
O-(2-METHOXYETHYL)PROPYLENE  
GLYCOL 500



## 14. TRANSPORT INFORMATION

<b>DOT</b>	
<b>UN-No:</b>	UN2810
<b>Proper Shipping Name:</b>	Toxic liquids, organic, n.o.s. [O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene glycol 500]
<b>Hazard Class:</b>	6.1
<b>Subsidiary Risk:</b>	
<b>Packing Group:</b>	III
<b>ERG No:</b>	153
<b>Marine Pollutant</b>	No data available
<b>DOT RQ (lbs):</b>	No information available
<b>Symbol(s):</b>	G
<b>TDG (Canada)</b>	
<b>UN-No:</b>	UN2810
<b>Proper Shipping Name:</b>	Toxic liquid, organic, n.o.s.
<b>Hazard Class:</b>	6.1
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	III
<b>Description:</b>	No information available
<b>ADR</b>	
<b>UN-No:</b>	UN2810
<b>Proper Shipping Name:</b>	Toxic liquid, organic, n.o.s.
<b>Hazard Class:</b>	6.1
<b>Packing Group:</b>	III
<b>Subsidiary Risk:</b>	No information available
<b>Classification Code:</b>	No information available
<b>Description:</b>	No information available
<b>CEFIC Tremcard No:</b>	No information available
<b>IMO / IMDG</b>	
<b>UN-No:</b>	UN2810
<b>Proper Shipping Name:</b>	Toxic liquid, organic, n.o.s.
<b>Hazard Class:</b>	6.1
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	III
<b>Description:</b>	No information available
<b>IMDG Page:</b>	No information available
<b>Marine Pollutant</b>	No information available
<b>EMS:</b>	F-A
<b>MFAG:</b>	No information available
<b>Maximum Quantity:</b>	No information available
<b>RID</b>	
<b>UN-No:</b>	UN2810
<b>Proper Shipping Name:</b>	Toxic liquid, organic, n.o.s.
<b>Hazard Class:</b>	6.1
<b>Subsidiary Risk:</b>	No information available
<b>Packing Group:</b>	III
<b>Classification Code:</b>	No information available
<b>Description:</b>	No information available

Product code: A2243

Product name: O-(2-AMINOPROPYL)-  
O-(2-METHOXYETHYL)PROPYLENE  
GLYCOL 500

9 / 12

## 14. TRANSPORT INFORMATION

### ICAO

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** No information available

### IATA

**UN-No:** UN2810  
**Proper Shipping Name:** Toxic liquid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**ERG Code:** 6L  
**Description:** No information available

## 15. REGULATORY INFORMATION

### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	Not Listed	Not present	Not present	Not present	Not present	Not present	Not present

### U.S. Regulations

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

##### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

##### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	Not Listed	Not Listed	Not Listed	Not Listed

### CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	None	None	None	None	None

### U.S. TSCA

**Product code:** A2243

**Product name:** O-(2-AMINOPROPYL)-  
O-(2-METHOXYETHYL)PROPYLENE  
GLYCOL 500

**10 / 12**

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	Not Applicable	Not Applicable

## Canada

### WHMIS hazard class:

D1B Toxic materials

D2B Toxic materials

### Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

## Inventory

Components	Canada (DSL)	Canada (NDSL)
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500	Not listed	Not listed

## EU Classification

### R-phrase(s)

not determined (not applicable)

R21/22 - Harmful in contact with skin and if swallowed.

R36/38 - Irritating to eyes and skin.

### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S36/37 - Wear suitable protective clothing and gloves.

Components	Classification	Concentration Limits:	Safety Phrases
O-(2-Aminopropyl)-O'-(2-methoxyethyl)propylene Glycol 500		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

### Indication of danger:

None.

## 16. OTHER INFORMATION

**Revision Date:** 05/26/2015  
**Prepared by:** Sonia Owen

**Disclaimer:** All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**